

## EPODOC / EPO

AN - JP-4037487-A  
AP - JP19870040374 19870225  
DT - I  
FAMN- 12578876  
FI - A61K31/685+AAE; A61P25/20  
FT - 4C086/AA01; 4C086/AA02; 4C086/DA40; 4C086/DA41; 4C086/DA42; 4C086/MA01;  
4C086/MA04; 4C086/NA06; 4C086/NA07; 4C086/NA12; 4C086/NA14; 4C086/NA20;  
4C086/ZA02; 4C086/ZA05; 4C086/ZA12; 4C086/ZA27; 4C086/ZC39  
IC - A61K31/685  
IN - HIBINO HIDEHIKO; FUKUDA NOBUO; NAKACHI OSAMU  
PA - NIPPON OILS & FATS CO LTD  
PN - JP63208524 A 19880830  
PR - JP19870040374 19870225  
LA - en  
UNAP- 62040374  
UNIN- HIBINO HIDEHIKO; FUKUDA NOBUO; NAKACHI OSAMU  
UNPA- NIPPON OIL & FATS CO LTD  
UNPN- JP 63208524 A  
UNPR- 62040374  
XFI - A61K-031/685+AAE; A61P-025/20  
XIC - A61K-031/685; A61K-031/683; A61P-025/00; A61P-025/20  
AB - PURPOSE: To obtain the titled improver, containing a compound  
having a choline skeleton in the molecule as an active ingredient,  
having low toxicity and mild action, capable of providing sleep  
resembling natural sleep within a physiological range without  
causing side effects even by administration for a long period and  
changing biorhythm. CONSTITUTION: A sleep rhythm  
improver containing a compound having a choline skeleton  
expressed by the formula in the molecule, e.g. glycerophosphocholine,  
choline phosphate or phosphatidylcholine as an active ingredient. The  
above-mentioned improver is capable of regularly producing  
sleep for somnipathy in which the first REM sleep normally  
appearing 60-90min after molting will not appear and applicable to  
treatment of insomnia, alcoholism, depression or schizophrenia of the  
old having disordered REM sleep rhythm.  
ICAI- A61K31/685; A61P25/20  
ICCI- A61K31/683; A61P25/00  
INW - HIBINO HIDEHIKO; FUKUDA NOBUO; NAKACHI OSAMU  
NPR - 1  
OPD - 1987-02-25  
PAW - NIPPON OILS & FATS CO LTD  
PD - 1988-08-30  
TI - SLEEP RHYTHM IMPROVER

XP-002515727

WPI / Thomson

AN - 1988-283020 [40]  
 AP - JP19870040374 19870225  
 CPY - NIOF  
 DC - B05  
 DCR - [1] 127 RGT  
 DW - 198840  
 IC - A61K31/68  
 IN - FUKUDA N; HIBINO H; NAKACHI O  
 LNKA- 1988-126056  
 M2 - [01] B415 B615 B701 B702 B713 B720 B815 B831 B832 F011 F012 F013 F014  
 F015 F113 F542 H1 H100 H121 H181 H211 H401 H402 H422 H481 H482 H721  
 H722 J011 J012 J272 J371 J521 L7 L722 L812 L821 L834 L910 M210 M211  
 M220 M221 M222 M223 M224 M225 M231 M232 M262 M273 M281 M282 M283 M311  
 M312 M313 M316 M321 M332 M342 M343 M373 M383 M391 M392 M411 M510 M520  
 M522 M530 M540 M781 M903 M904 P446 P451 P625 V762 V771; 8840-15701-U  
 MC - B04-B01B B05-B01P B12-C08 B12-C10  
 PA - (NIOF ) NIPPON OILS & FATS CO LTD  
 PN - JP63208524 A 19880830 DW198840  
 PR - JP19870040374 19870225  
 XIC - A61K-031/68; A61K-031/683; A61K-031/685; A61P-025/00; A61P-025/20  
 AB - Prepn. comprises cpds. having choline structure in the mol. shown in  
 formula (I):  
 The cpds. have a partial choline structure (I): and include  
 glycerophosphocholine, choline phosphate, CDP-choline,  
 phosphatidylcholine, sphingomyelin etc. and salts. These cpds. are  
 generally used 2-3 g as choline in the form of conventional  
 pharmaceutical oral or parenteral formulation.  
 - USE/ADVANTAGE :  
 Sleep rhythm improving agent reduces disturbance of sleep due to  
 insomnia, depression, senile dementia etc. without cumulative nor  
 adverse affects. Admin. is possible for a long period of time.  
 ICAI- A61K31/685; A61P25/20  
 ICCI- A61K31/683; A61P25/00  
 INW - FUKUDA N; HIBINO H; NAKACHI O  
 IW - SLEEP RHYTHM IMPROVE MEDICAL PREPARATION CHOLINE STRUCTURE COMPOUND  
 REDUCE EFFECT INSOMNIA DEPRESS SENILE DEMENTIA  
 IWW - SLEEP RHYTHM IMPROVE MEDICAL PREPARATION CHOLINE STRUCTURE COMPOUND  
 REDUCE EFFECT INSOMNIA DEPRESS SENILE DEMENTIA  
 NC - 1  
 NPN - 1  
 OPD - 1987-02-25  
 PAW - (NIOF ) NIPPON OILS & FATS CO LTD  
 PD - 1988-08-30  
 TI - Sleep rhythm improving medical prep. - using choline structural cpds.  
 to reduce effects of insomnia, depression, senile dementia etc.